

SEQUENCE LISTING

<110> Founq, Steven K.H.
Hadlock, Kenneth G.

<120> Prevention and Treatment of HCV Infection Employing
Antibodies that Inhibit the Interaction of HCV Virions
with Their Receptor.

<130> 2002850-0009

<140> 09/000/00

<141> 2000-12-01

<160> 35

<170> PatentIn Ver. 2.1

<210> 1

<211> 160

<212> DNA

<213> Hepatitis C Virus

<400> 1

```
ctcaactgga ttcaccaaag tgtgcggagc gcctccttgt gtcacgagag gggcgggcaa 60
caacaccttg cactgccccca ctgattgctt ccgcaagcat ccggacgcca catactctcg 120
gtgcgggtcc ggtccctgga tcacaccag gtgcctggtc 160
```

<210> 2

<211> 160

<212> DNA

<213> Hepatitis C Virus

<400> 2

```
ctcaactgga ttcaccaaag tgtgcggagc gcccccttgt gtcacgagag gggcgggcaa 60
caacaccttg cgctgccccca ctgattgttt ccgcaagcat ccggaagcca cgtactctcg 120
gtgcgggtcc ggtccctgga ttacgccag gtgcctggtc 160
```

<210> 3

<211> 160

<212> DNA

<213> Bovine Pancreatic Ribonuclease A

<400> 3

```
tagtactggg ttcactaaga cgtgcggagg ccccccttgt aacatcgagg gggtcggtaa 60
ccgcaccttg atctgccccca cggactgctt ccggaagcac cccgaggcta cttacacaaa 120
```

atgtggctcg gggccctggt tgacacctag gtgcctagta

160

<210> 4

<211> 160

<212> DNA

<213> T7 Bacteriophage

<400> 4

tggcacaggg ttcaccaaga cgtgtggggc ccccccattgt aacatcgggg gggtcggcaa 60
taacaccttg acttgcccca cggactgttt ccggaagcac cccgaggcca cttacaccaa 120
atgtgggttcg gggccttggc tgacacctag gtgcatagtt 160

<210> 5

<211> 166

<212> DNA

<213> Bacterial Protein

<400> 5

ctccactggc tacaccaaga cttgcggcgc accaccctgc cgcattagag ctgacttcaa 60
tgccagcatg gacttggtgt gcccacgga ctgttttagg aagcatcctg ataccaccta 120
catcaaattg ggctctgggc cctggctcac gccaaagtgc ctgata 166

<210> 6

<211> 167

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 6

ctccactggt tcacaaaac ttgcggcgca ccaccctgcc gcatcagagc tgactttaat 60
gccagcacgg acctgctgtg ccccacggac tgtttcagga agcatcctga agccacttac 120
atcaaattgt gctctggggc ccccctgtga cgccaaagtg cctaata 167

<210> 7

<211> 166

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 7

Q232 **Q233** **Q234** **Q235** **Q236** **Q237** **Q238** **Q239** **Q240** **Q241** **Q242** **Q243** **Q244** **Q245** **Q246** **Q247** **Q248** **Q249** **Q250** **Q251** **Q252** **Q253** **Q254** **Q255** **Q256** **Q257** **Q258** **Q259** **Q260** **Q261** **Q262** **Q263** **Q264** **Q265** **Q266** **Q267** **Q268** **Q269** **Q270** **Q271** **Q272** **Q273** **Q274** **Q275** **Q276** **Q277** **Q278** **Q279** **Q280** **Q281** **Q282** **Q283** **Q284** **Q285** **Q286** **Q287** **Q288** **Q289** **Q290** **Q291** **Q292** **Q293** **Q294** **Q295** **Q296** **Q297** **Q298** **Q299** **Q300** **Q301** **Q302** **Q303** **Q304** **Q305** **Q306** **Q307** **Q308** **Q309** **Q310** **Q311** **Q312** **Q313** **Q314** **Q315** **Q316** **Q317** **Q318** **Q319** **Q320** **Q321** **Q322** **Q323** **Q324** **Q325** **Q326** **Q327** **Q328** **Q329** **Q330** **Q331** **Q332** **Q333** **Q334** **Q335** **Q336** **Q337** **Q338** **Q339** **Q340** **Q341** **Q342** **Q343** **Q344** **Q345** **Q346** **Q347** **Q348** **Q349** **Q350** **Q351** **Q352** **Q353** **Q354** **Q355** **Q356** **Q357** **Q358** **Q359** **Q360** **Q361** **Q362** **Q363** **Q364** **Q365** **Q366** **Q367** **Q368** **Q369** **Q370** **Q371** **Q372** **Q373** **Q374** **Q375** **Q376** **Q377** **Q378** **Q379** **Q380** **Q381** **Q382** **Q383** **Q384** **Q385** **Q386** **Q387** **Q388** **Q389** **Q390** **Q391** **Q392** **Q393** **Q394** **Q395** **Q396** **Q397** **Q398** **Q399** **Q400** **Q401** **Q402** **Q403** **Q404** **Q405** **Q406** **Q407** **Q408** **Q409** **Q410** **Q411** **Q412** **Q413** **Q414** **Q415** **Q416** **Q417** **Q418** **Q419** **Q420** **Q421** **Q422** **Q423** **Q424** **Q425** **Q426** **Q427** **Q428** **Q429** **Q430** **Q431** **Q432** **Q433** **Q434** **Q435** **Q436** **Q437** **Q438** **Q439** **Q440** **Q441** **Q442** **Q443** **Q444** **Q445** **Q446** **Q447** **Q448** **Q449** **Q450** **Q451** **Q452** **Q453** **Q454** **Q455** **Q456** **Q457** **Q458** **Q459** **Q460** **Q461** **Q462** **Q463** **Q464** **Q465** **Q466** **Q467** **Q468** **Q469** **Q470** **Q471** **Q472** **Q473** **Q474** **Q475** **Q476** **Q477** **Q478** **Q479** **Q480** **Q481** **Q482** **Q483** **Q484** **Q485** **Q486** **Q487** **Q488** **Q489** **Q490** **Q491** **Q492** **Q493** **Q494** **Q495** **Q496** **Q497** **Q498** **Q499** **Q500** **Q501** **Q502** **Q503** **Q504** **Q505** **Q506** **Q507** **Q508** **Q509** **Q510** **Q511** **Q512** **Q513** **Q514** **Q515** **Q516** **Q517** **Q518** **Q519** **Q520** **Q521** **Q522** **Q523** **Q524** **Q525** **Q526** **Q527** **Q528** **Q529** **Q530** **Q531** **Q532** **Q533** **Q534** **Q535** **Q536** **Q537** **Q538** **Q539** **Q540** **Q541** **Q542** **Q543** **Q544** **Q545** **Q546** **Q547** **Q548** **Q549** **Q550** **Q551** **Q552** **Q553** **Q554** **Q555** **Q556** **Q557** **Q558** **Q559** **Q560** **Q561** **Q562** **Q563** **Q564** **Q565** **Q566** **Q567** **Q568** **Q569** **Q570** **Q571** **Q572** **Q573** **Q574** **Q575** **Q576** **Q577** **Q578** **Q579** **Q580** **Q581** **Q582** **Q583** **Q584** **Q585** **Q586** **Q587** **Q588** **Q589** **Q590** **Q591** **Q592** **Q593** **Q594** **Q595** **Q596** **Q597** **Q598** **Q599** **Q600** **Q601** **Q602** **Q603** **Q604** **Q605** **Q606** **Q607** **Q608** **Q609** **Q610** **Q611** **Q612** **Q613** **Q614** **Q615** **Q616** **Q617** **Q618** **Q619** **Q620** **Q621** **Q622** **Q623** **Q624** **Q625** **Q626** **Q627** **Q628** **Q629** **Q630** **Q631** **Q632** **Q633** **Q634** **Q635** **Q636** **Q637** **Q638** **Q639** **Q640** **Q6**

```
<400> 11
ctccactgtt tcaccaaaac ttgcggcgca ccaccctgcc gcatcagagc tgactttaat 60
gccagcacgg acctgctgtg cccacggac tgtttcagga agcatcctga agccacttac 120
atcaaatgtg gctctgggcc cctgtgacgc caaagtgcct gata                                     164
```

<210> 12
<211> 167
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic

<400> 12
tgggactggg ttcactaaga catgcggtgc accaccttgc cgcattagga gggactgcaa 60
cggaaccctc gacctattgt gccccacaga ctgtttcaga aagcaccag atactaccta 120
ccttaagtgt ggagcggggg ccttggttga ccccaaagt catggta 167

<210> 13
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Flag Epitope

<400> 13
Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 14
<211> 10
<212> PRT
<213> T7 Bacteriophage

<400> 14
Met Ala Ser Met Thr Gly Gly Gln Met Gly
1 5 10

<210> 15
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:S-Tag Sequence

<400> 15
Lys Glu Thr Ala Ala Ala Lys Phe Glu Arg Gln His Met Asp Ser

1

5

10

15

<210> 16
 <211> 20
 <212> DNA
 <213> Hepatitis C Virus

<400> 16
 cgcgccacraa gtaggyact 20

<210> 17
 <211> 21
 <212> DNA
 <213> Hepatitis C Virus

<400> 17
 cgcatggcgt gggatgat g 21

<210> 18
 <211> 32
 <212> DNA
 <213> Hepatitis C Virus

<400> 18
 cgaagcttca tatgatcgct ggtgctcact gg 32

<210> 19
 <211> 38
 <212> DNA
 <213> Hepatitis C Virus

<400> 19
 gcggatccct gcagctacaa actggcttga agaatcca 38

<210> 20
 <211> 34
 <212> DNA
 <213> Hepatitis C Virus

<400> 20
 cgcatatgga gctcgcgggg gccactggg gagg 34

<210> 21
<211> 38
<212> DNA
<213> Hepatitis C Virus

<400> 21
gctctagact gcagctatat gccagcctgg agcaccat

38

<210> 22
<211> 34
<212> DNA
<213> Hepatitis C Virus

<400> 22
cgctcgagcc atggttggcg gggctcattg gggc

34

<210> 23
<211> 40
<212> DNA
<213> Hepatitis C Virus

<400> 23
tcgaattcgg atcctacaaa gcacctttta ggagataagc

40

<210> 24
<211> 34
<212> DNA
<213> Hepatitis C Virus

<400> 24
cgctcgagcc atggttttcg gggccattg ggtg

34

<210> 25
<211> 40
<212> DNA
<213> Hepatitis C Virus

<400> 25
tcgaattcgg atcctacaga gacgctttaa ggaggtaggc

40

<210> 26
<211> 23
<212> DNA

1. *Staphylococcus aureus* (Staph. aureus) is a common cause of skin infections, such as abscesses and boils. It is also responsible for more serious infections like pneumonia and sepsis.

tggttcggbt gywcntggat gaa

<210> 27

<211> 26

<212> DNA

<213> Hepatitis C Virus

<400> 27

taatgccana rcckrtangg gtagtc

26

<210> 28

<211> 379

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Pdisplay Vector
Sequence with E2 insert of Sflb-E2

<400> 28

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly Asp Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Ala
20 25 30

Gln Pro Ala Arg Ser Thr Thr Tyr Thr Thr Gly Gly Ala Ala Ser Arg
35 40 45

Thr Thr Gly Thr Phe Thr Ser Leu Phe Asn Ala Gly Ser Ser Gln Lys
50 55 60

Ile Gln Leu Ile Asn Thr Asn Gly Ser Trp His Ile Asn Arg Thr Ala
65 70 75 80

Leu Asn Cys Asn Asp Ser Leu Asn Thr Gly Phe Leu Ala Ala Leu Phe
85 90 95

Tyr Val His Arg Phe Asn Ala Ser Gly Cys Pro Ala Arg Met Ala Ser
100 105 110

Cys Arg Ser Ile Asp Ala Phe Asp Gln Gly Trp Gly Pro Ile Thr Tyr
115 120 125

Ala Glu Ser His Ser Ser Asp Gln Arg Pro Tyr Cys Trp His Tyr Ala
 130 135 140

Pro Lys Pro Cys Gly Ile Val Pro Ala Ser Gln Val Cys Gly Pro Val
 145 150 155 160

Tyr Cys Phe Thr Pro Ser Pro Val Val Val Gly Thr Thr Asp His His
 165 170 175

Gly Val Pro Thr Tyr Ser Trp Gly Glu Asn Glu Thr Asp Val Leu Leu
 180 185 190

Leu Asn Asn Thr Arg Pro Pro Gln Gly Asn Trp Phe Gly Cys Thr Trp
 195 200 205

Met Asn Gly Thr Gly Phe Thr Lys Thr Cys Gly Gly Pro Pro Cys Asn
 210 215 220

Ile Gly Gly Val Gly Asn Asn Thr Leu Thr Cys Pro Thr Asp Cys Phe
 225 230 235 240

Arg Lys His Pro Glu Ala Thr Tyr Thr Lys Cys Gly Ser Gly Pro Trp
 245 250 255

Leu Thr Pro Arg Cys Ile Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr
 260 265 270

Pro Cys Thr Val Asn Phe Thr Ile Phe Lys Val Arg Met Tyr Val Gly
 275 280 285

Gly Met Glu His Arg Leu Asn Ala Ala Cys Asn Trp Thr Arg Gly Glu
 290 295 300

Arg Cys Asp Leu Glu Asp Arg Asp Arg Ser Glu Leu Gln Val Ala Glu
 305 310 315 320

Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ala Val Gly Gln Asp Thr
 325 330 335

Gln Glu Val Ile Val Val Pro His Ser Leu Pro Phe Lys Val Val Val
 340 345 350

Ile Ser Ala Ile Leu Ala Leu Val Val Leu Thr Ile Ile Ser Leu Ile
 355 360 365

Ile Leu Ile Met Leu Trp Gln Lys Lys Pro Arg
 370 375

0072220-420100

<210> 29
 <211> 278
 <212> PRT
 <213> Hepatitis C Virus

<400> 29

Thr	Thr	Tyr	Thr	Thr	Gly	Gly	Ala	Ala	Ser	Arg	Thr	Thr	Gly	Thr	Phe
1				5					10					15	
Thr	Ser	Leu	Phe	Asn	Ala	Gly	Ser	Ser	Gln	Lys	Ile	Gln	Leu	Ile	Asn
			20				25						30		
Thr	Asn	Gly	Ser	Trp	His	Ile	Asn	Arg	Thr	Ala	Leu	Asn	Cys	Asn	Asp
		35					40					45			
Ser	Leu	Asn	Thr	Gly	Phe	Leu	Ala	Ala	Leu	Phe	Tyr	Val	His	Arg	Phe
	50					55					60				
Asn	Ala	Ser	Gly	Cys	Pro	Ala	Arg	Met	Ala	Ser	Cys	Arg	Ser	Ile	Asp
65					70					75					80
Ala	Phe	Asp	Gln	Gly	Trp	Gly	Pro	Ile	Thr	Tyr	Ala	Glu	Ser	His	Ser
			85						90					95	
Ser	Asp	Gln	Arg	Pro	Tyr	Cys	Trp	His	Tyr	Ala	Pro	Lys	Pro	Cys	Gly
		100						105					110		
Ile	Val	Pro	Ala	Ser	Gln	Val	Cys	Gly	Pro	Val	Tyr	Cys	Phe	Thr	Pro
	115						120					125			
Ser	Pro	Val	Val	Val	Gly	Thr	Thr	Asp	His	His	Gly	Val	Pro	Thr	Tyr
	130					135					140				
Ser	Trp	Gly	Glu	Asn	Glu	Thr	Asp	Val	Leu	Leu	Leu	Asn	Asn	Thr	Arg
145				150					155					160	
Pro	Pro	Gln	Gly	Asn	Trp	Phe	Gly	Cys	Thr	Trp	Met	Asn	Gly	Thr	Gly
			165					170						175	
Phe	Thr	Lys	Thr	Cys	Gly	Gly	Pro	Pro	Cys	Asn	Ile	Gly	Gly	Val	Gly
		180					185						190		
Asn	Asn	Thr	Leu	Thr	Cys	Pro	Thr	Asp	Cys	Phe	Arg	Lys	His	Pro	Glu
	195					200					205				
Ala	Thr	Tyr	Thr	Lys	Cys	Gly	Ser	Gly	Pro	Trp	Leu	Thr	Pro	Arg	Cys

220

Phe Thr Ile Phe Lys Val Arg Met Tyr Val Gly Gly Met Glu His Arg
245 250 255

Leu Asn Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu
260 265 270

Asp Arg Asp Arg Ser Glu
275

<213> Hepatitis C Virus

Ile Gln Leu Ile Asn Thr Asn Gly Ser Trp His Ile Asn Arg Thr Ala
1 5 10 15

Leu Asn Cys Asn Asp Ser Leu Asn Thr Gly Phe Leu Ala Ala Leu Phe
20 25 30

Tyr Val His Arg Phe Asn Ala Ser Gly Cys Pro Ala Arg Met Ala Ser
35 40 45

Cys Arg Ser Ile Asp Ala Phe Asp Gln Gly Trp Gly Pro Ile Thr Tyr
50 55 60

Ala Glu Ser His Ser Ser Asp Gln Arg Pro Tyr Cys Trp His Tyr Ala
65 70 75 80

Pro Lys Pro Cys Gly Ile Val Pro Ala Ser Gln Val Cys Gly Pro Val
85 90 95

Tyr Cys Phe Thr Pro Ser Pro Val Val Val Gly Thr Thr Asp His His
100 105 110

Gly Val Pro Thr Tyr Ser Trp Gly Glu Asn Glu Thr Asp Val Leu Leu
115 120 125

Leu Asn Asn Thr Arg. Pro Pro Gln Gly Asn Trp Phe Gly Cys Thr Trp
130 135 140

Met Asn Gly Thr Gly Phe Thr Lys Thr Cys Gly Gly Pro Pro Cys Asn
145 150 155 160

Ile Gly Gly Val Gly Asn Asn Thr Leu Thr Cys Pro Thr Asp Cys Phe
165 170 175

Arg Lys His Pro Glu Ala Thr Tyr Thr Lys Cys Gly Ser Gly Pro Trp
180 185 190

Leu Thr Pro Arg Cys Ile Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr
195 200 205

Pro Cys Thr Val Asn Phe Thr Ile Phe Lys Val Arg Met Tyr Val Gly
210 215 220

Gly Met Glu His Arg Leu Asn Ala Ala Cys Asn Trp Thr Arg Gly Glu
225 230 235 240

Arg Cys Asp Leu Glu Asp Arg Asp Arg Ser Glu
245 250

<210> 31

<211> 215

<212> PRT

<213> Hepatitis C Virus

<400> 31

Phe Asn Ala Ser Gly Cys Pro Ala Arg Met Ala Ser Cys Arg Ser Ile
1 5 10 15

Asp Ala Phe Asp Gln Gly Trp Gly Pro Ile Thr Tyr Ala Glu Ser His
20 25 30

Ser Ser Asp Gln Arg Pro Tyr Cys Trp His Tyr Ala Pro Lys Pro Cys
35 40 45

Gly Ile Val Pro Ala Ser Gln Val Cys Gly Pro Val Tyr Cys Phe Thr
50 55 60

Pro Ser Pro Val Val Val Gly Thr Thr Asp His His Gly Val Pro Thr
65 70 75 80

Tyr Ser Trp Gly Glu Asn Glu Thr Asp Val Leu Leu Leu Asn Asn Thr
85 90 95

Arg Pro Pro Gln Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Gly Thr
100 105 110

100

105

110

Pro Thr Asp Cys Phe Arg Lys His Pro Glu Ala Thr Tyr Thr Lys Cys
115 120 125

Gly Ser Gly Pro Trp Leu Thr Pro Arg Cys Ile Val Asp Tyr Pro Tyr
130 135 140

Arg Leu Trp His Tyr Pro Cys Thr Val Asn Phe Thr Ile Phe Lys Val
145 150 155 160

Arg Met Tyr Val Gly Gly Met Glu His Arg Leu Asn Ala Ala Cys Asn
165 170 175

Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu Asp Arg Asp Arg Ser Glu
180 185 190

<210> 33

<211> 261

<212> PRT

<213> Hepatitis C Virus

<400> 33

Thr Thr Tyr Thr Thr Gly Gly Ala Ala Ser Arg Thr Thr Gly Thr Phe
1 5 10 15

Thr Ser Leu Phe Asn Ala Gly Ser Ser Gln Lys Ile Gln Leu Ile Asn
20 25 30

Thr Asn Gly Ser Trp His Ile Asn Arg Thr Ala Leu Asn Cys Asn Asp
35 40 45

Ser Leu Asn Thr Gly Phe Leu Ala Ala Leu Phe Tyr Val His Arg Phe
50 55 60

Asn Ala Ser Gly Cys Pro Ala Arg Met Ala Ser Cys Arg Ser Ile Asp
65 70 75 80

Ala Phe Asp Gln Gly Trp Gly Pro Ile Thr Tyr Ala Glu Ser His Ser
85 90 95

Ser Asp Gln Arg Pro Tyr Cys Trp His Tyr Ala Pro Lys Pro Cys Gly
100 105 110

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

